动 物 学 研 究 2000, Dec. 21 (6): 478～480
Zoological Research



CN 53－1040/Q ISSN 0254－5853

Q959.153.1

云南新贝氏虫属一新种
(指环虫目: 锚首虫科)

宇应伟[①] 骆永德[②]

(①思茅师范高等专科学校生物系 云南 665000) (②云南师范大学生物系 昆明 650092)

摘要: 报道了采自云南寄生于黄斑褶鮡 *Pseudecheneis sulcatus* (McClelland) 鳃丝上的新贝氏虫属一新种——钳状新贝氏虫 *Neobychowskyella chelicerus* sp. nov.。

关键词: 单殖吸虫; 新贝氏虫属; 新种; 云南 锚首虫科
中图分类号: Q959.153.1 **文献标识码**: A **文章编号**: 0254－5853(2000)06－0478－03

1998 年 5 月在云南西部澜沧江水系落扎河(云县, 24°28'N, 100°07'E) 采到黄斑褶鮡 [*Pseudecheneis sulcatus* (McClelland)] 4 尾, 经镜检, 全为阳性, 从鳃部均找到单殖吸虫, 感染强度为 3～5 只。据封片标本鉴定, 该虫与马成伦等 (1983) 报道的鮡新贝氏虫 *Neobychowskyella glyptothoraci* Ma, Wang *et* Li 相似: 虫体长形, 后吸器与体部区分不明显; 具 7 对边缘小钩, 3 对发育完全, 4 对为胚钩型; 有背、腹两套大钩和背、腹联结片及副片; 此外, 后吸器具 "W" 形的辅助附着器 (apparatus of attachment), 背中央大钩具 1 对棒状的第 2 副片。由于所发现的种类具有上述属主要特征, 故列入该属。但该种在 "W" 形辅助附着器前缘有一呈钳状的几丁质结构, 交接器与 *Neobychowskyella glyptothoraci* Ma, Wang *et* Li, 1983 也有明显差别, 故拟名为钳状新贝氏虫 (*Neobychowskyella chelicerus* sp. nov.), 现报道如下。

文中量度以毫米 (mm) 计。模式标本保存在云南师范大学生物系和思茅师范高等专科学校生物系。

收稿日期: 2000－07－10; 修改稿收到日期: 2000－09－19

(上接第 477 页)

with complete skulls have been used for multivariate and monovariate analyses. The principal component analysis gave out two groups, *A. chevrieri* and *draco-orestes* group, while the discriminant analysis showed that all specimens were correctly classified in *A. chevrieri*, *A. draco* and *A. orestes* with the former widely different from the latter two. An univariate analysis demonstrated that *A. draco* and *A. orestes* had significant difference in head and body length (t = 78.359, $P < 0.001$), tail length ($t = 71.555$, $P < 0.001$), the rate of tail length to head and body length ($t = 70.550$, $P < 0.001$), cranial breadth ($t = 75.886$, $P = 0.025$) and palatal bridge length ($t = 60.803$, $P = 0.030$). *Apodemus draco* has a wide distribution in Wuliang Mountain, which overlaps with *A. chevrieri* in lower elevations less than 2 300 m in farmlands and jungle habitat, overlaps with *A. orestes* in higher elevations over 2 450 m in forest habitat. Therefore, *Apodemus orestes* is a valid species.

Key words: Wuliang Mountain; *Apodemus*; Univariate analysis; Multivariate Analysis; Ecogeographical distribution

1 钳状新贝氏虫 *Neobychowskyella chelicerus* sp. nov.（图 1）

小形蠕虫，体长 0.288 ~ 0.432，体宽 0.060 ~ 0.080，咽为 0.024 ~ 0.032。边缘小钩 7 对，3 对发育完全，长 0.025 ~ 0.035，4 对为胚钩型，长 0.014 ~ 0.016；背中央大钩钩尖转折明显，全长 0.048 ~ 0.050，基部长 0.048 ~ 0.050，内、外突不显，钩尖长 0.008 ~ 0.010；腹中央大钩全长 0.025 ~ 0.026，基部长 0.020 ~ 0.026，内、外突不显，钩尖长 0.008 ~ 0.010。背联结片呈菱形环状，大小为 0.006 ~ 0.015 × 0.046 ~ 0.051；腹联结片 1 对，棒状，近端似长骨头状，大小为 0.004 ~ 0.008 × 0.039 ~ 0.048。第一对副片较粗壮，末端呈爪状，大小为 0.004 ~ 0.005 × 0.032 ~ 0.035；第二副片 2 根，棒状，各位于背联结片两侧，长 0.020 ~ 0.024。在背联结片前缘，有"W"形辅助附着器，柄较长，为 0.028 ~ 0.050，下部口面向上，底部似由两片花瓣状膜质片组成，长 0.016 ~ 0.018。在"W"形辅助附着器近柄端，具一几丁质结构，各片先端尖削，后部膨大，全形似呈交叉开口的钳状物，长 0.016 ~ 0.019。交接管呈弧形，全长 0.088 ~ 0.100，基部直径 0.004 ~ 0.005；支持器全长 0.046 ~ 0.053，为一弯曲的几丁质片状物构成，基部扁圆，端部卷成筒状，交接管从中穿过向外延伸。阴道呈长管状，长 0.052 ~ 0.083。卵大小为 0.064 ~ 0.073 × 0.064 ~ 0.086。描述据 5 个封片标本。

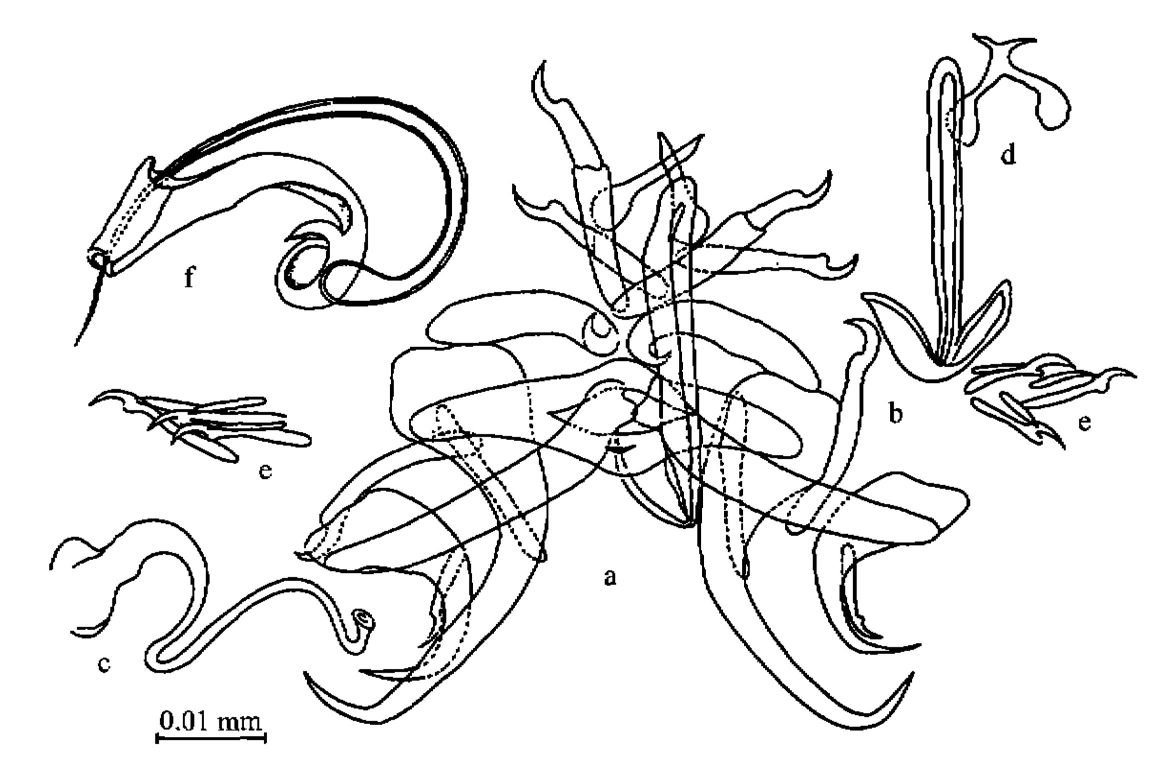


图 1 钳状新贝氏虫，新种 *Neobychowskyella chelicerus* sp. nov.

a：后吸器（opisthaptor）；b："W" 形辅助附着器（W-like apparatus of attachment）；c：阴道（vagina tubule）；d：钳状结构（scissor-like piece）；e：边缘小沟（marginal hooklet）；f：交接器（copulatory organ）。a ~ e：为各结构的相对位置（a-e showed the relative position）。

参 考 文 献

马成伦，王慈生，李远培，1983. 单殖吸虫一新属新种[J]. 动物分类学报，8(1)：24 ~ 27.［Ma C L, Wang C C, Li Y P, 1983. A new genus and species of monogenetic trematodes. *Acta Zootaxonomica Sinica*, 8(1)：24 – 27.］

张剑英，纪国良. 1981 我国淡水鲶类单殖吸虫五新种[J]. 动物分类学报，6(1)：4 ~ 12.［Zhang J Y, Ji G L, 1981. Five new species of monogenetic trematodes from freshwater catfishes of China. *Acta Zootaxonomica Sinica*, 6(1)：4 – 12.］

浙江动物志编委会，1991. 浙江动物志（吸虫类）[M]. 杭州：浙江科学技术出版社. 2 ~ 7.［Editorial Committee of Fauna of Zhejiang, 1991. Fauna of Zhejiang (Trematoda). Hangzhou：Zhejiang Science and Technology Publishing House. 2 – 7.］

Gussev A V, 1976. Freshwater Indian Monogenoidea. Principles of systematics, analysis of the world faunas and their evolution[J]. *Ind.*

J. Helm., **25 - 26**: 1 - 241.

Jain S L, 1959. Monogenea of Indian freshwater fishes Ⅶ. *Sprostonia*, a new genus of freshwater Tetraonchinae, with the description of four new species from the gill filaments of fishes from Luknow. [J]. *Parasit.*, 49(1 - 2): 153 - 168.

Yamaguti S, 1963. Systema helminthum. Ⅳ. Monogenea and Aspidocotylea[M]. New York. 699.

A NEW SPECIES OF *Neobychowskyella* FROM YUNNAN PROVINCE (Dactylogyridea: Ancyrocephalidae)

ZI Ying-Wei① LUO Yong-De②

(①*Department of Biology, Simao Teachers College, Simao Yunnan* 665000, *China*)

(②*Department of Biology, Yunnan Teachers University, Kunmung Yunnan* 650092, *China*)

***Neobychowskyella chelicerus* sp. nov.** (Fig.1)

Type specimens: deposited in the Deparment of Biology, Yunnan Teachers University and Simao Teachers College.

Host: *Pseudecheneis sulcatus* (McClelland)

Location: Luozha River (Yunxian County, 24° 28′N, 100°07′E), Western Yunnan, China.

Description: Minute worm, body size 0.288 - 0.432 × 0.060 - 0.080, pharynx 0.024 - 0.032, 7 pairs of marginal hooklets, 4 pairs embryonic type and 3 pairs enlarged, 0.025 - 0.035 in length, 2 pairs of anchors; dorsal central large hooks: total length 0.048 - 0.050, basal portion 0.048 - 0.050, inner and outer roots not marked, point 0.008 - 0.010; ventral anchors: total length 0.025 - 0.026, basal portion 0.020 - 0.026, inner and outer roots not prominent, point 0.008 - 0.010. Connective plate a rhomboidal ring, 0.006 - 0.015 × 0.046 - 0.051. Connective bars paired, 0.004 - 0.008 × 0.039 - 0.048. Accessory pieces 0.004 - 0.005 × 0.032 - 0.035, with an additional chitineous stick, 0.020 - 0.024 in length. Onchium a double striped anchor-like structure and with a crossed scissor-like piece anterior to it. Copulating tuba arched, 0.088 - 0.100 in length, basal diameter 0.004 - 0.005; supporting apparatus a curved membranous piece with a circular opening on its middle, and through this opening the copulating tube passes. Vagina tubular, 0.052 - 0.083. Egg 0.064 - 0.073 × 0.064 - 0.086. Description based on 5 mounted specimens.

Key words: Monogenea; *Neobychowskyella*; New species; Yunnan